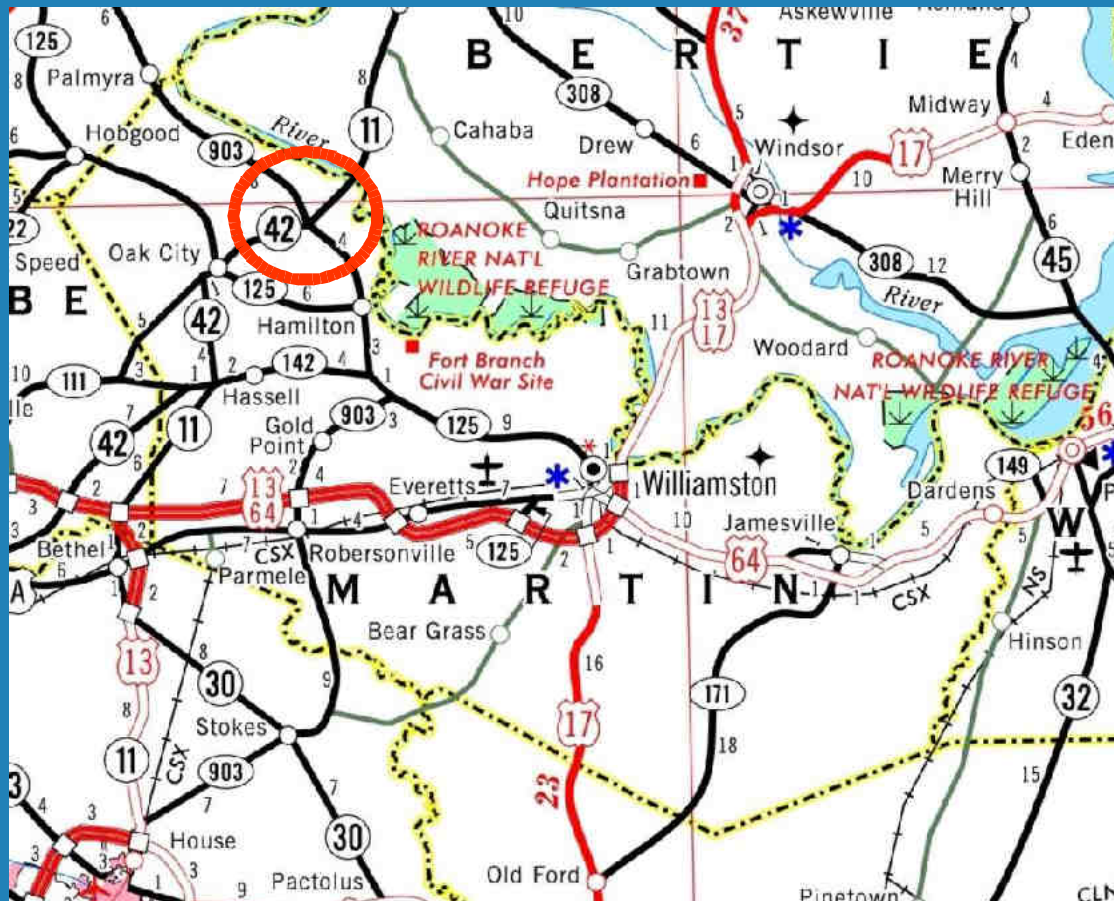




Dual Actuated Flasher

NCDOT Traffic Engineering Conference
August 23-25, 2006
Wilmington, NC

Location of SI#01-0307



Looking Southeast, toward Hamilton



Looking Southwest, toward Oak City



Looking Northwest, toward Halifax County



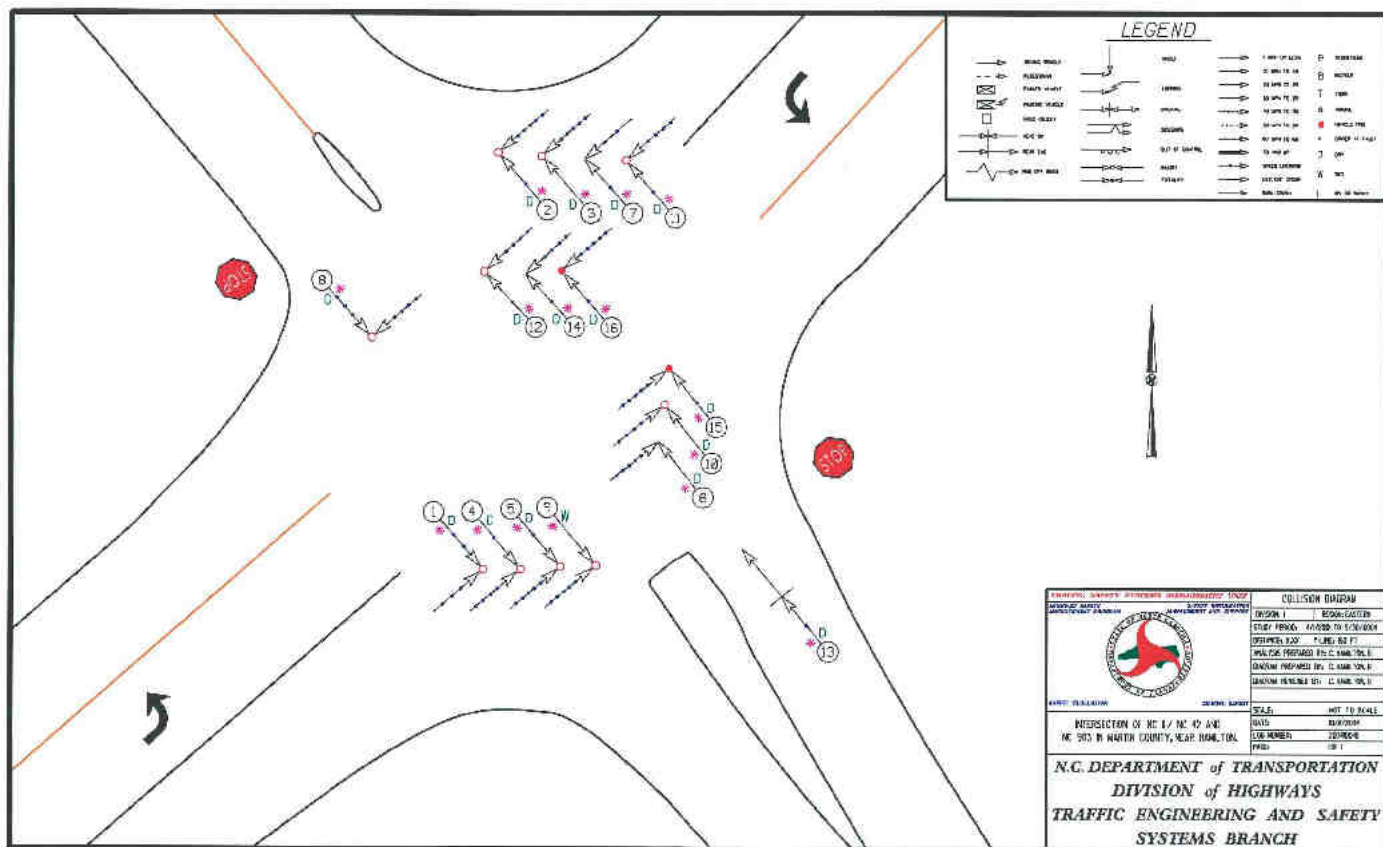
Looking Northeast, toward Ahoskie



What's the Situation?

- * In 1982, an Overhead Flasher was installed at this intersection
- * Overhead Flasher was upgraded to a “Vehicle Entering When Flashing” in June 1996
- * With 2 fatal accidents occurring in Sept 2004 and public concern, an investigation was initiated for further improvements
- * In July 2005, a dual actuated flasher was installed

Crash Diagram

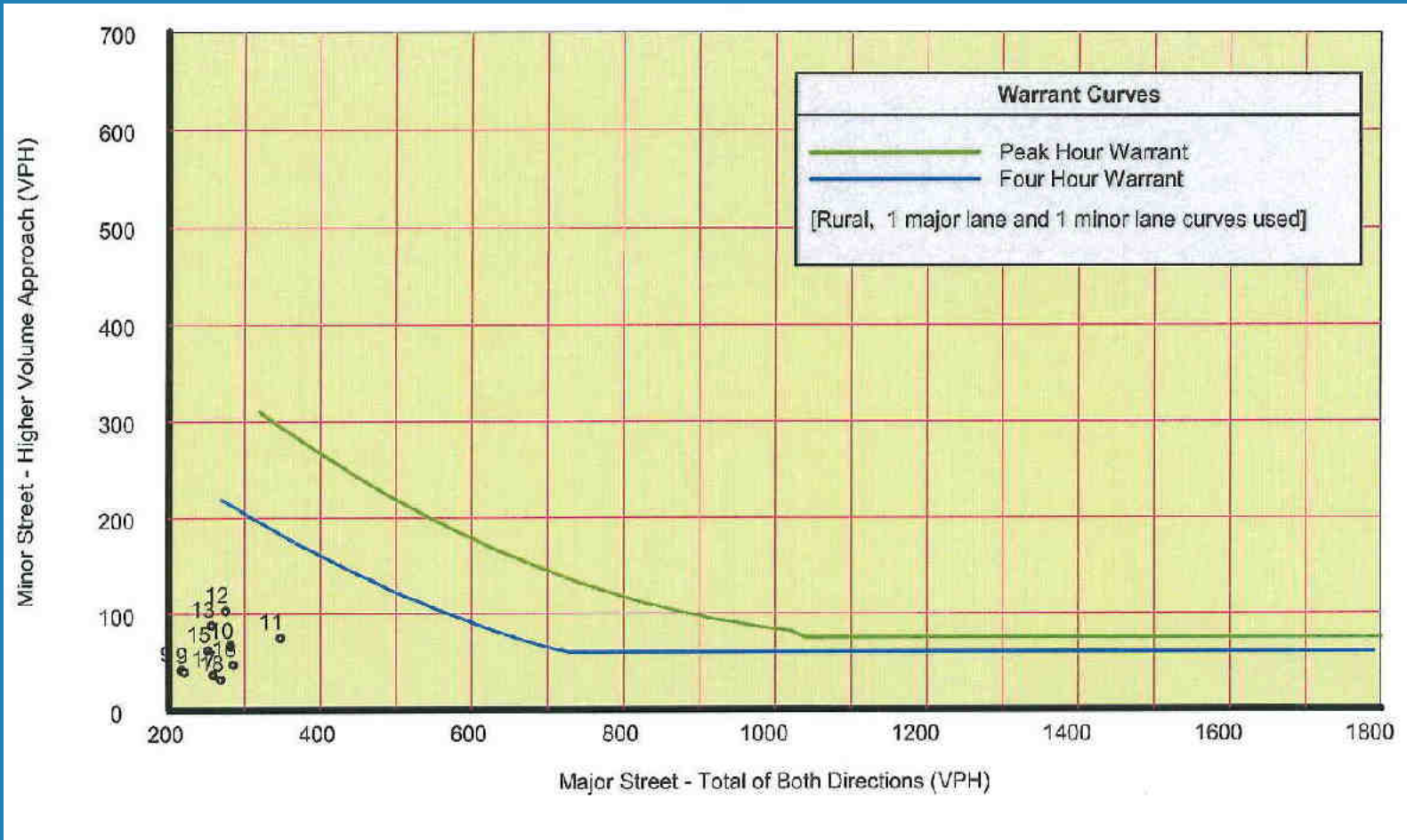


Analysis of 8-Hour Volume Warrants

Analysis of 8-Hour Volume Warrants:

Hour Begin	Major Total	Higher Minor		War-1A			War-1B			War-1A&B		
		Vol	Dir	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?	Major Crit	Minor Crit	Meets?
00:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
01:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
02:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
03:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
04:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
05:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
06:00	147	39	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
07:00	157	49	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
08:00	187	43	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
09:00	217	42	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
10:00	282	66	SB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-No	---
11:00	348	75	SB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-No	---
12:00	276	103	NB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-Yes	Minor
13:00	257	88	NB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-Yes	Minor
14:00	182	83	NB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-No	---
15:00	252	62	NB	350-No	105-No	---	525-No	53-Yes	Minor	420-No	84-No	---
16:00	286	47	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
17:00	259	37	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
18:00	269	32	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
19:00	221	40	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
20:00	172	33	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
21:00	128	27	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
22:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---
23:00	0	0	NB	350-No	105-No	---	525-No	53-No	---	420-No	84-No	---

Analysis of 4-Hour & Peak Hour Warrants



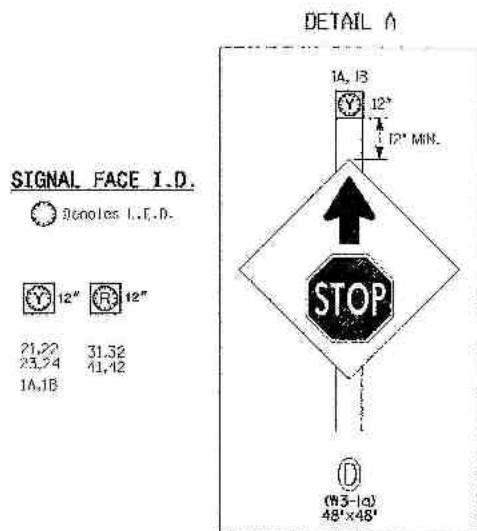


Dual Actuated Flasher?

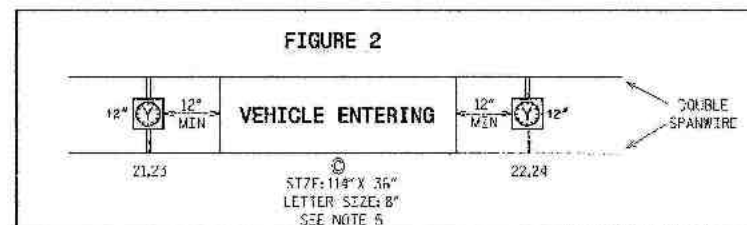
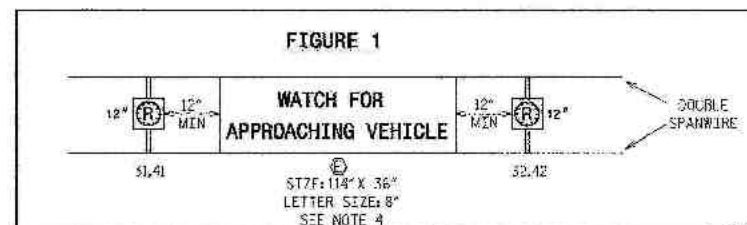
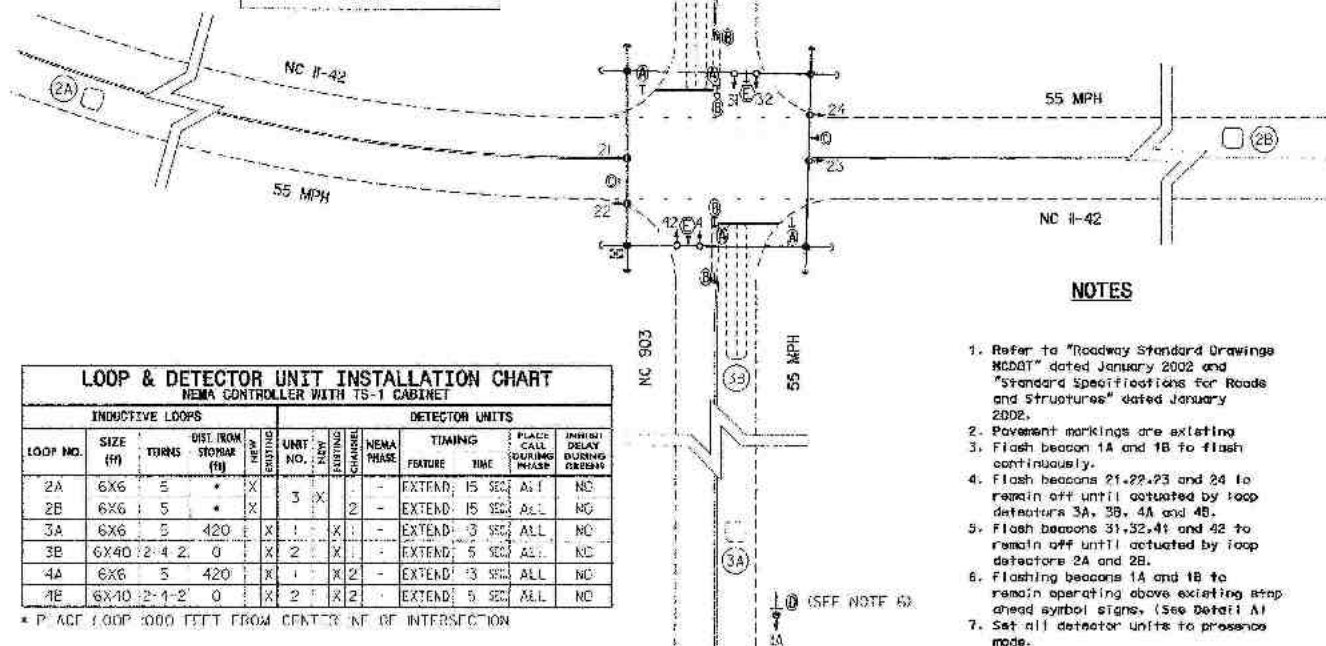
How does it work?

- * This flasher works very similar to a Vehicle Entering When Flashing
- * The side street traffic actuates the Yellow beacons over the main street approach
- * However, the Red beacons for the side street approach remain dark until actuated by the main street traffic
- * The actuated Red beacons are meant to aid the side street motorist in judging whether to enter the intersection or not

What's on the Signal Plan?



(SEE NOTE 6) ⊙



After photo-Looking Southeast, toward Hamilton



After photo-Looking Southwest, toward Oak City



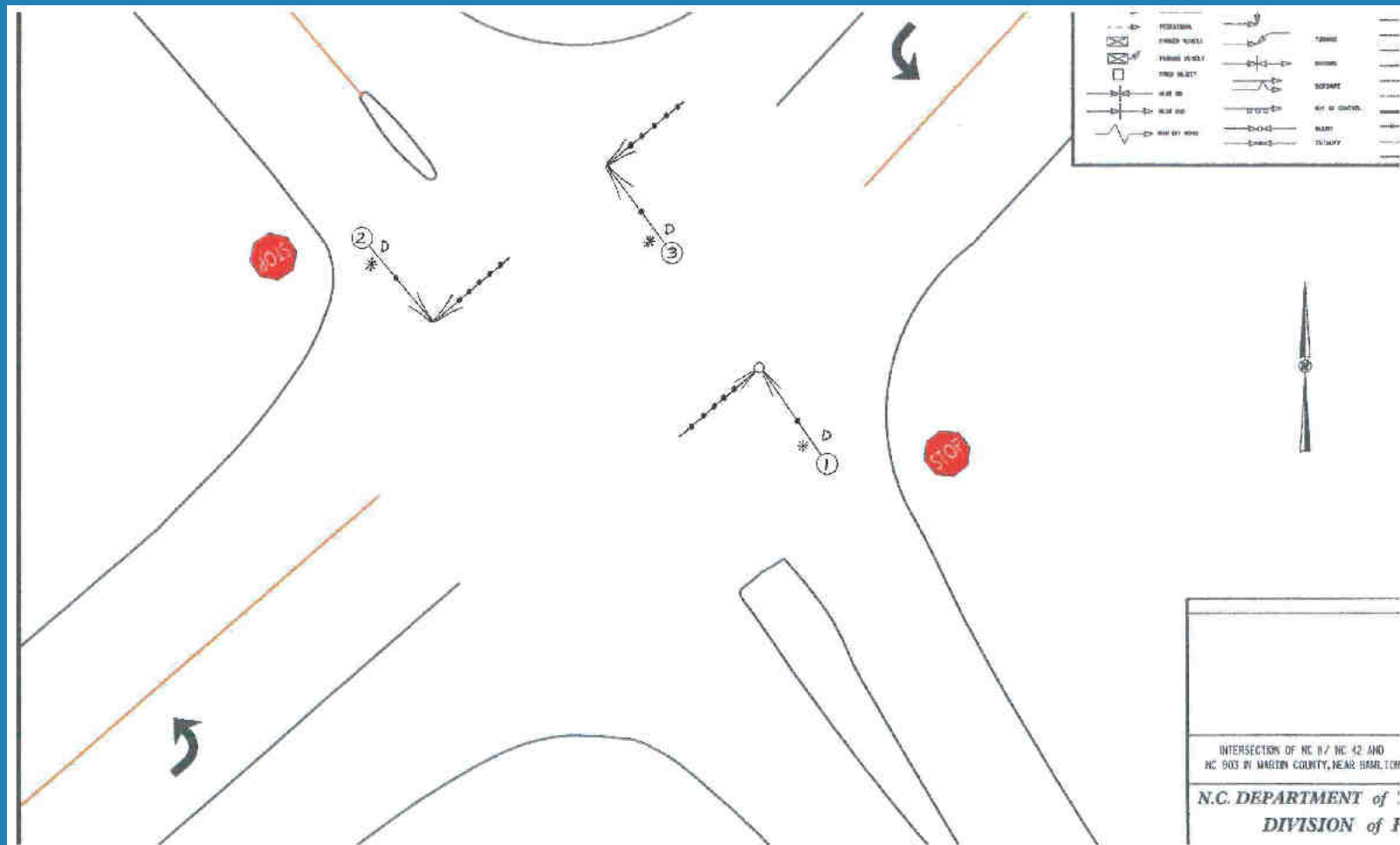
After photo-Looking Northwest, toward Halifax County



After Photo- Looking Northeast, toward Ahoskie



Crash Diagram-1 year later



Future of Intersection

- * Continue monitoring accident data to ensure improvements have produced a reduction in number and severity of accidents at this location
- * NC 11 has been designated as a Strategic Highway Corridor
- * NC 11 envisioned to become a Freeway type facility
- * Future Grade Separation?



Questions?

Contact Info:

Donald Chad W. Edge III, P.E.

Division 1 Traffic Engineer

252-482-7977

dedge@dot.state.nc.us